

N^o 13,029



A.D. 1904

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Complete Specification Left, 9th Apr., 1905—Accepted, 9th June, 1905

PROVISIONAL SPECIFICATION.

Improvements in or relating to the Treatment of Plastic Material for Pills and the like and in Apparatus therefor

I RICHARD GIBBINS 155 Uttoxeter New Road Derby Wholesale Druggist do hereby declare the nature of this invention to be as follows:—

This invention consists essentially in introducing masses of pill or other preparation between & subjecting them to the action of two travelling vertical
5 bands or surfaces set at the desired distance apart.

In constructing apparatus according to this invention, two pairs of rollers are mounted at a certain suitable distance apart one above the other, with their axes horizontal on a suitable frame.

The rollers may be made of wood or other suitable material, and suitable
10 means are provided whereby they may be rotated so that the belts will travel in opposite directions.

Around both pairs of rollers are arranged endless bands consisting of transverse strips of steel or other suitable material. The strips may be of any desired width or length, and may be either jointed directly to one another, so as to form
15 a flexible metal band or fastened in close proximity to one another on to a band of leather or other flexible material. The vertical run of the bands is preferably supported at intermediate parts by additional rollers in order to prevent undue sagging of the surface when in use.

The mean distance between the belts may be varied within any desired limits.
20 Masses of the said preparation are fed into the upper end of the vertical travelling belts one after the other and are carried downwards to the lower end. The mutual action of the belts reduces the irregular shaped masses of the preparation into cylindrical length of cord like appearance.

These cylindrical lengths are collected as they emerge from the lower end
25 of the apparatus into a suitable receptacle, previous to being subjected to the action of revolving rollers (of which I have already applied for Patent Number 17112 August 6th 1903 and formed into pills by any of the well known processes.

Dated this Eighth day of June 1904

30 RICHARD GIBBINS,
Wholesale Druggist,
155 Uttoxeter New Road, Derby

COMPLETE SPECIFICATION.

Improvements in or relating to the Treatment of Plastic Material for Pills and the like and in Apparatus therefor.

35 I RICHARD GIBBINS 155 Uttoxeter New Road Derby, Wholesale Druggist, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to the treatment of plastic materials and apparatus

[Price 8d.]

Improvements in or relating to the Treatment of Plastic Material for Pills, &c.

therefor and has for its principal object the conversion of mass or dough of pill preparation into cord like lengths (technically known as piping) of a uniform cross section prior to their being formed into pills or the like.

The invention consists essentially in introducing masses of pill preparation between and subjecting them to the mutual action of two travelling vertical bands or surfaces set at the desired inclination. Fig 1 as a side elevation; and Fig 2 a front elevation of the apparatus.

The construction of an apparatus according to this invention consists of two pairs of rollers or chain wheels *i* mounted at a suitable distance apart with their axes horizontal on a suitable frame *a*.

The said rollers or chain wheels *i* may be made of wood, metal or any suitable material, and suitable means are provided whereby they may be rotated so that the bands *g* will travel at the same or different speeds in opposite directions.

Around both pairs of rollers *i* are arranged bands *g* consisting of transverse strips of metal or other suitable material, which strips may be of any desired length and width and be jointed directly one the other or fastened in close proximity to one another to a chain or band of leather or other flexible material.

The vertical run of the bands *g* is preferably supported at intermediate parts by means of suitable rollers *b* which are carried in brackets *j* which are suitably attached to the main frame *a* of the machine.

The mean distance and inclination of the bands *g* at *c* and *e* may be regulated by the adjusting screws *d* within any desired limit.

The bands *g* may be tightened vertically by means of the adjusting screws *h*.

The driving pulleys *f* may be rotated by chains, belts, or any other suitable means and the bands *g* are caused to travel in the direction of the arrows.

The operation of the machine as just described would be as follows:—

Masses of the said preparation *k* are fed into the upper end *c* of the travelling bands *g* one after the other and are carried downwards to the lower end *e*, the mutual action of the bands *g* reduces the irregular shaped masses of the preparation into cylindrical lengths of cord like appearance.

The piping as it emerges from the lower end of the vertical bands *g* may fall in between rollers located underneath (not included in this invention) to be further rolled or may be collected in a convenient receptacle after which they may be cut up and rounded into pills by any of the well known processes.

If necessary before using the apparatus for the purpose just described the working surfaces of the bands *g* may be treated or dressed in any well known manner to prevent the adhesion thereto of the pill preparation.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:—

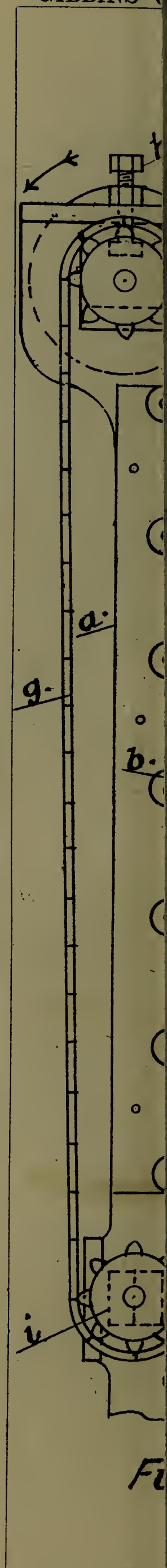
The herein described method of reducing masses of pill preparation or plastic material into cord like lengths technically known as piping.

Dated this Sixth day of April, 1905

RICHARD GIBBINS.



[This Drawing is a reproduction of the Original on a reduced scale.]



Fu

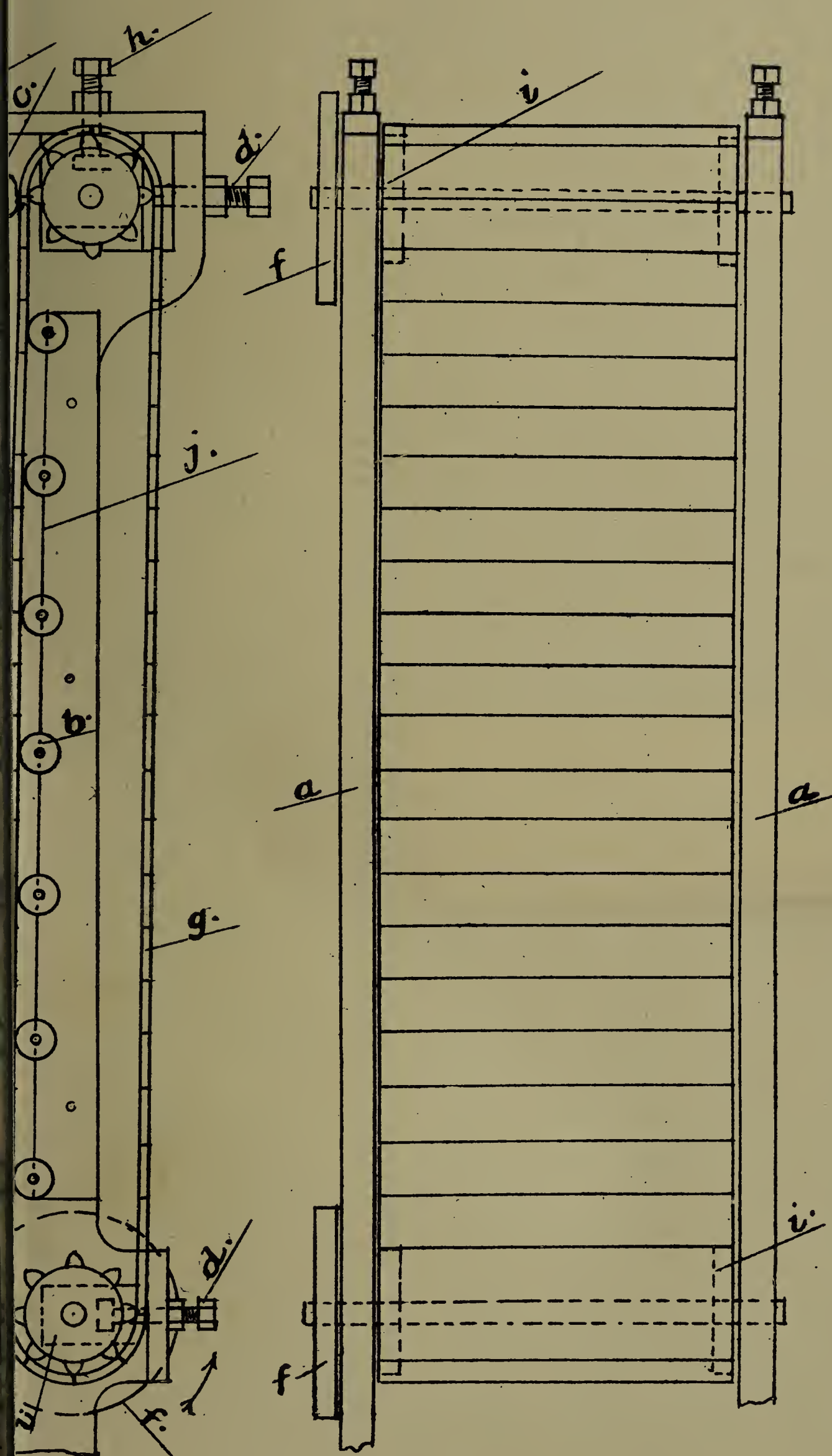


Fig 2.

